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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:57:33 ON 03 JAN 2007

=>
Uploading
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE
Do you want to switch to the Registry File?
Choice (Y/n):
Switching to the Registry File...
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 16:58:01 ON 03 JAN 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 2 JAN 2007 HIGHEST RN 916646-22-5
DICTIONARY FILE UPDATES: 2 JAN 2007 HIGHEST RN 916646-22-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

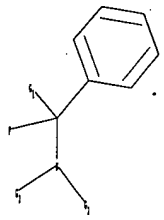
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

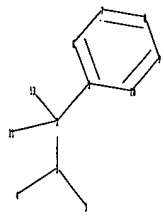
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10537437fulorinator.str





chain nodes :
1 2 3 4 11 13
ring nodes :
5 6 7 8 9 10
chain bonds :
1-2 1-3 1-4 2-5 2-11 2-13
ring bonds :
5-6 5-10 6-7 7-8 8-9 9-10
exact/norm bonds :
1-2 1-3 1-4 2-13
exact bonds :
2-5 2-11
normalized bonds :
5-6 5-10 6-7 7-8 8-9 9-10

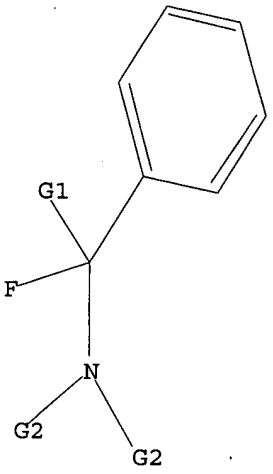
G1:H,Cl,Br,F,I

G2:CH3,CH2,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,Ph

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 13:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 H,Cl,Br,F,I

G2 Me,CH2,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu,t-Bu,Ph

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full
FULL SEARCH INITIATED 16:58:32 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4035 TO ITERATE

100.0% PROCESSED 4035 ITERATIONS 21 ANSWERS
SEARCH TIME: 00.00.01

L2 21 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.10	172.31

FILE 'CAPLUS' ENTERED AT 16:58:37 ON 03 JAN 2007

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FILE COVERS 1907 - 3 Jan 2007 VOL 146 ISS 2
FILE LAST UPDATED: 2 Jan 2007 (20070102/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l2 and (?saccharide or sugar or glucose or fructose or galactose or ribose or deoxyribose or starch or chitin or cellulose)
            32 L2
        166701 ?SACCHARIDE
        257156 SUGAR
        414493 GLUCOSE
         63693 FRUCTOSE
         56624 GALACTOSE
         27347 RIBOSE
          4227 DEOXYRIBOSE
        161779 STARCH
         15969 CHITIN
        347856 CELLULOSE
L3   3 L2 AND (?SACCHARIDE OR SUGAR OR GLUCOSE OR FRUCTOSE OR GALACTOSE
               OR RIBOSE OR DEOXYRIBOSE OR STARCH OR CHITIN OR CELLULOSE)

=> d l3 1-3 ti abs bib

L3   ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
TI   De novo asymmetric syntheses of C-4-substituted sugars via an iterative dihydroxylation strategy
AB   A short and highly efficient route to various C-4 substituted sugar lactones has been developed. The key to the overall transformation is the sequential osmium-catalyzed dihydroxylation reaction of substituted 2,4-dienoates and an allylic substitution at the C-4 position. When the Sharpless AD-mix procedure is used in a matched sense for the second dihydroxylation reaction, it results in an exceedingly diastereo- and enantioselective synthesis of several C-4-substituted sugars.
AN   2006:548970 CAPLUS
DN   145:211276
TI   De novo asymmetric syntheses of C-4-substituted sugars via an iterative dihydroxylation strategy
AU   Ahmed, Md. Moinuddin; O'Doherty, George A.
CS   Department of Chemistry, West Virginia University, Morgantown, WV, 26506, USA
SO   Carbohydrate Research (2006), 341(10), 1505-1521
     CODEN: CRBRAT; ISSN: 0008-6215
PB   Elsevier B.V.
DT   Journal
LA   English
OS   CASREACT 145:211276
RE.CNT 26   THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3   ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
TI   Deoxyfluorination of alcohols using N,N-diethyl-α,α-difluoro-(m-methylbenzyl)amine
AB   Deoxyfluorination of alcs. was carried out using N,N-diethyl-α,α-difluoro-(m-methylbenzyl)amine (DFMBA). Primary alcs. were effectively converted to fluorides under microwave irradiation or conventional heating. Deoxyfluorination of an anomeric hydroxy group in sugars by DFMBA proceeded at below room temperature and glycosyl fluorides could

be obtained in good yields. The deoxyfluorination reaction chemoselectively proceeded and various protecting groups on the sugar can survive under the reaction conditions.

AN 2004:581849 CAPLUS
DN 141:260951
TI Deoxyfluorination of alcohols using N,N-diethyl-α,α-difluoro-(m-methylbenzyl)amine
AU Kobayashi, Shingo; Yoneda, Atushi; Fukuhara, Tsuyoshi; Hara, Shoji
CS Division of Molecular Chemistry, Graduate School of Engineering, Hokkaido University, Sapporo, 060-8628, Japan
SO Tetrahedron (2004), 60(32), 6923-6930
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier Science B.V.
DT Journal
LA English
OS CASREACT 141:260951
RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
TI Method of fluorination using N,N-diethyl-α,α-difluorobenzylamines
AB Disclosed is a method in which a glucide, examples of which include a monosaccharide, an oligosaccharide, a polysaccharide, a composite saccharide comprising any of these saccharides and a protein or lipid bonded thereto, a polyalc., an aldehyde, ketone, or acid of a polyalc., a derivative or condensate of any of these, is reacted with a fluorinating agent represented by the general formula of RCF2-Y(R1)R2 [y = N, P; R-R2 are same or different group selected from H and each (un)substituted alkyl and aryl; or ≥2 of R-R2 groups are bonded to each other to form a ring] either thermally or by irradiation with microwave or an electromagnetic wave with a wavelength around the microwave region. By the method, fluorination reaction can be safely conducted position-selectively even in a temperature range of 150 to 200°, in which fluorination has conventionally been difficult. The method in which the reactants are irradiated with microwave or an electromagnetic wave with a wavelength around the microwave region is applicable to substrates other than glucides. When a complex compound comprising HF and a base, for example, is reacted with a substrate by irradiation with microwave, fluorination in a specific position which has been difficult in conventional techniques proceeds highly selectively in a short time efficiently and safely. Thus, 10 mmol Me 2,3-O-isopropylidene-β-D-ribofuranoside, 12 mmol N,N-diethyl-α,α-difluoro-3-methylbenzylamine, and 20 mL heptane were added to a glass vessel reaction vessel coated with fluorinated resin, heated with 100° with stirring, and allowed to react for 50 min to give 55% Me 2,3-O-isopropylidene-5-deoxy-5-fluoro-β-D-ribofuranoside.
AN 2004:493719 CAPLUS
DN 141:38808
TI Method of fluorination using N,N-diethyl-α,α-difluorobenzylamines
IN Hara, Shoji; Fukuhara, Tsuyoshi
PA Mitsubishi Gas Chemical Company, Inc., Japan
SO PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2004050676	A1	20040617	WO 2003-JP15336	20031201
W: CN, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
JP 2004182664	A	20040702	JP 2002-352968	20021204

```
     JP 2004189655         A      20040708    JP 2002-358249          20021210
     EP 1568703            A1     20050831    EP 2003-775984          20031201
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK
     CN 1720256            A      20060111    CN 2003-80104679        20031201
     US 2006014972         A1     20060119    US 2005-537437          20050603
PRAI JP 2002-352968        A      20021204
     JP 2002-358249        A      20021210
     WO 2003-JP15336       W      20031201
OS   CASREACT 141:38808; MARPAT 141:38808
RE.CNT  19    THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> s (sugar or ?accharide) and (fluorinat?)
        257156 SUGAR
        166709 ?ACCHARIDE
         49821 FLUORINAT?
L4         483 (SUGAR OR ?ACCHARIDE) AND (FLUORINAT?)

=> d l4 1-5 ti

L4   ANSWER 1 OF 483  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Design, synthesis, and biological evaluation of novel iso-D-2',3'-dideoxy-
     3'-fluorothianucleoside derivatives

L4   ANSWER 2 OF 483  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Preparation of highly fluorinated carboxylic acids and their
     application as protective groups in fluorous synthesis

L4   ANSWER 3 OF 483  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Fluorinated analogues of biological molecules: accessing new
     chemical, physical and biological properties

L4   ANSWER 4 OF 483  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   A synthesis of 2-fluoroglucal derivatives

L4   ANSWER 5 OF 483  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Fluorinated nucleosides as antiviral and antitumor agents


=> s l4 not py>2002
       4750668 PY>2002
L5         393 L4 NOT PY>2002

=> s l5 and DBDA
           38 DBDA
L6          0 L5 AND DBDA

=> s l5 and (difluorobenzyl)
          926 DIFLUOROBENZYL
L7          0 L5 AND (DIFLUOROBENZYL)

=> s l5 and (?fluoramine)
          225 ?FLUORAMINE
L8          0 L5 AND (?FLUORAMINE)

=> log hold
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY     SESSION
FULL ESTIMATED COST                                   46.71      219.02

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY     SESSION
CA SUBSCRIBER PRICE                                   -2.34       -2.34
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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	AUG 09	INSPEC enhanced with 1898-1968 archive
NEWS 4	AUG 28	ADISCTI Reloaded and Enhanced
NEWS 5	AUG 30	CA(SM)/CAplus(SM) Austrian patent law changes
NEWS 6	SEP 21	CA/CAplus fields enhanced with simultaneous left and right truncation
NEWS 7	SEP 25	CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS 8	SEP 25	CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 9	SEP 25	CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 10	SEP 28	CEABA-VTB classification code fields reloaded with new classification scheme
NEWS 11	OCT 19	LOGOFF HOLD duration extended to 120 minutes
NEWS 12	OCT 19	E-mail format enhanced
NEWS 13	OCT 23	Option to turn off MARPAT highlighting enhancements available
NEWS 14	OCT 23	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 15	OCT 23	The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded
NEWS 16	OCT 30	CHEMLIST enhanced with new search and display field
NEWS 17	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS 18	NOV 10	CA/CAplus F-Term thesaurus enhanced
NEWS 19	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS 20	NOV 20	CAS Registry Number crossover limit increased to 300,000 in additional databases
NEWS 21	NOV 20	CA/CAplus to MARPAT accession number crossover limit increased to 50,000
NEWS 22	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS 23	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS 24	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS 25	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS 26	DEC 18	CA/CAplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS 27	DEC 18	CA/CAplus patent kind codes updated
NEWS 28	DEC 18	MARPAT to CA/CAplus accession number crossover limit increased to 50,000
NEWS 29	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS 30	DEC 27	CA/CAplus enhanced with more pre-1907 records

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available